

## VxWorks Kernels - Feature #19337

### Add function to download from product area

03/09/2018 10:12 AM - Richard Neswold

<b>Status:</b>	New	<b>Start date:</b>	03/09/2018
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Kernel Enhancement	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>			

#### Description

It would be nice to have a function in the kernel which knew where to download modules. Unless a better name is offered, I'd propose something like `productLoad()`. For instance, calling this function on a mv5500 running VxWorks 6.4 translates

```
productLoad("mooc-4.7.out");
```

into

```
ld(1, 1, "vxworks_boot/v6.4/module/mv5500/mooc-4.7.out");
```

whereas, on a mv2434 running VxWorks 6.7, it is translated to:

```
ld(0, 0, "vxworks_boot/v6.7/module/mv2434/mooc-4.7.out");
```

It could also print helpful error messages when a module can't be loaded (as long as the underlying `ld()` function provides a useful error status.)

The function could also do some intelligent adjustments. For instance, if the file name has our "-beta" designation in it, it means the developer is testing a module. In this case the first argument to `ld()` should be set to 1 so that all symbols are loaded, not just global symbols. If the filename has a version number, then it's operational and a 0 should be passed as the first argument to `ld()`.

#### History

##### #1 - 01/15/2020 09:57 AM - Richard Neswold

Looking at some startup scripts used by other departments, I saw excellent examples where a startup script loaded other scripts to load common files across front-ends in a standard way. I'm embarrassed that our group didn't promote this idea.

Anyways, in trying to convert some of my front-ends over to this convention, I realized that resolving this issue would make it very easy to create scripts that work across VxWorks versions and BSPs.

Anyone interested in writing this module?